



PATENT ABSTRACTS OF JAPAN

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**(54)METHOD FOR MACHINING VALVE SEAT IN
CYLINDER HEAD****(57)Abstract:**

PURPOSE: To perform for a seat surface with the use of small-scale simple equipment without rotating a cylinder head side.

CONSTITUTION: On a valve seat 2, a circumferential groove 10 is preliminarily formed whose cross section is nearly an inverted trapezoid such that a line c perpendicular to the bottom face 10a is parallel to the axial center b of the valve seat 2, and simultaneously, extra thickness parts 7, 8 are projectingly formed. The circumferential groove 10 is irradiated by a laser beam 3 with a powder 5 supplied to the groove, and also a cladding layer 6 is formed by moving the laser beam 3 in the circumferential direction of the groove 10. After cladding, the excess part of the cladding layer 6 and the extra thickness parts

7, 8 are cut and removed, so that the final machined shape 2b is finished on the seat surface.

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